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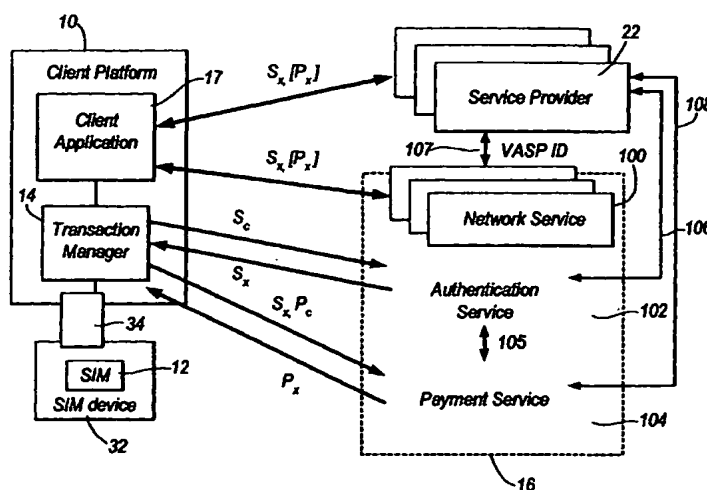
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(54) Title: FACILITATING AND AUTHENTICATING TRANSACTIONS



(57) Abstract: A computer, such as a Windows-based PC (10), has associated with it a Subscriber Identity Module (or SIM) (12), such as of the type used in a GSM cellular telephone system. The SIM (12) can be authenticated by the telephone network (16), in the same way as for authenticating SIMs of telephone handset users in the network, and can in this way authenticate the user of the PC (10) or the PC (10) itself. Such authentication can, for example, permit use of the PC (10) in relation to a particular application (22) which is released to the PC (10) after the authentication is satisfactorily completed. The application may be released to the PC (10) by a third party after and in response to the satisfactory completion of the authentication process. A charge for the session can be debited to the user by the telecommunications network and then passed on to the third party.

WO 2004/036513 A1



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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 590 197 A (CHEN JAMES F ET AL) 31 December 1996 (1996-12-31) the whole document ---	1-38
X	EP 1 229 476 A (SONY COMP ENTERTAINMENT AMERIC) 7 August 2002 (2002-08-07) column 6, line 29 -column 10, line 16; claims 32,48; figure 1 ---	1-38
X	US 5 689 565 A (SPELMAN JEFFREY F ET AL) 18 November 1997 (1997-11-18) column 26, line 13 -column 26, line 55; figures 1,2 column 5, line 20 -column 6, line 35 --- -/--	1-38

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 022 638 A (IBM) 26 July 2000 (2000-07-26) page 4, paragraph 17 -page 6, paragraph 25; claims 8,23; figure 1 ----	1-38
X	WO 01 50429 A (AMERICAN EXPRESS TRAVEL RELATE) 12 July 2001 (2001-07-12) page 9, paragraph 3 -page 10, paragraph 3; claim 12; figures 1,2 ----	1-38
X	FR 2 793 903 A (TELEDIFFUSION FSE) 24 November 2000 (2000-11-24) page 31, line 25 -page 33, line 10; claim 1; figure 4 ----	1-5, 18-20
A	US 6 449 651 B1 (DORFMAN ALEXANDER ET AL) 10 September 2002 (2002-09-10) column 4, line 65 -column 7, line 52; figures 1,2 ----	
Y	EP 1 223 524 A (AUTHENTURE INC) 17 July 2002 (2002-07-17) column 10, line 54 -column 13, line 18; claims 5,18 column 22, line 40 -column 24, line 37 ----	1-38
Y	US 2002/129250 A1 (KIMURA AKIRA) 12 September 2002 (2002-09-12) page 2, paragraph 19 -page 4, paragraph 49; claims 14,16,46; figure 6 ----	1-38
A	FR 2 749 424 A (CKD SA) 5 December 1997 (1997-12-05) the whole document ----	1-5
A	KEUL M: "DONGLES: HARDWARE SCHUTZT SOFTWARE" ELEKTRONIK, FRANZIS VERLAG GMBH. MUNCHEN, DE, vol. 39, no. 10, 11 May 1990 (1990-05-11), pages 82-84,86, XP000117036 ISSN: 0013-5658 page 82 -page 84 ----	18,26
X	EP 0 715 242 A (NIPPON TELEGRAPH & TELEPHONE) 5 June 1996 (1996-06-05) the whole document -----	1-38

INTERNATIONAL SEARCH REPORT

Inter Application No

PCT/GB93/04390

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5590197	A	31-12-1996	NONE
EP 1229476	A	07-08-2002	US 2002104019 A1 01-08-2002 CN 1371057 A 25-09-2002 EP 1229476 A2 07-08-2002 JP 2002314529 A 25-10-2002
US 5689565	A	18-11-1997	US RE38070 E1 08-04-2003
EP 1022638	A	26-07-2000	EP 1022638 A2 26-07-2000 JP 2000206876 A 28-07-2000 KR 2000057713 A 25-09-2000 TW 449991 B 11-08-2001
WO 0150429	A	12-07-2001	AU 3086101 A 16-07-2001 WO 0150429 A1 12-07-2001 US 2001037312 A1 01-11-2001
FR 2793903	A	24-11-2000	FR 2793903 A1 24-11-2000
US 6449651	B1	10-09-2002	NONE
EP 1223524	A	17-07-2002	AU 765797 B2 02-10-2003 AU 8364701 A 09-05-2002 CA 2359651 A1 03-05-2002 CN 1357850 A 10-07-2002 EP 1223524 A2 17-07-2002 JP 2002245243 A 30-08-2002 NZ 515201 A 29-04-2003
US 2002129250	A1	12-09-2002	JP 2002261755 A 13-09-2002
FR 2749424	A	05-12-1997	FR 2749424 A1 05-12-1997 EP 0951703 A1 27-10-1999 WO 9746986 A1 11-12-1997
EP 0715242	A	05-06-1996	JP 3327435 B2 24-09-2002 JP 8160855 A 21-06-1996 JP 3458979 B2 20-10-2003 JP 8160856 A 21-06-1996 DE 69529801 D1 10-04-2003 DE 69529801 T2 20-11-2003 EP 0715242 A1 05-06-1996 US 5701343 A 23-12-1997